## SERVICE ENTERPRISE ENGINEERING, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

### Program Requirements

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### Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student’s major(s).

### Prescribed Courses

**Prescribed Courses: Require a grade of C or better**

- IE 460 Service Systems Engineering 3
- IE 478 Retail Services Engineering 3

### Additional Courses

**Additional Courses: Require a grade of C or better**

Select 6 credits from Engineering Cluster:

- IE 302 Engineering Economy
- IE 322 Probabilistic Models in Industrial Engineering
- IE 323 Statistical Methods in Industrial Engineering
- IE 330 Engineering Analytics
- IE 402 Advanced Engineering Economy
- IE 405 Deterministic Models in Operations Research or MATH 484 Linear Programs and Related Problems
- IE 424 Process Quality Engineering
- IE 467 Facility Layout and Location
- IE 468 Optimization Modeling and Methods
- IE 480W Capstone Design Project

Select 6 credits from the Service Cluster:

- HDFS 311 Human Development and Family Studies Interventions
- HDFS 455 Development and Administration of Human Services Programs
- HPA 332 Health Systems Management
- HPA 433 Administration of Hospital and Health Service Systems
- HPA 442 Long-Term Care Management
- HPA 475 Health Care Quality